

IN THE CLAIMS:

1. (Original) A catalyst for use in oxidation or reduction reactions, the catalyst comprising platinum at a concentration that is no greater than 60 atomic percent, titanium, and tungsten.
2. (Original) A catalyst for use in oxidation or reduction reactions, the catalyst comprising platinum, titanium at a concentration of at least 20 atomic percent, and tungsten.
3. (Original) A catalyst for use in oxidation or reduction reactions, the catalyst comprising platinum, titanium, and tungsten, wherein the concentration of tungsten is at least 25 atomic percent.
4. (Currently Amended) The catalyst of ~~any one of claims 1-3~~ claim 1 wherein the concentration of platinum is no greater than about 50 atomic percent.
5. (Currently Amended) The catalyst of ~~any one of claims 1-4~~ claim 1 wherein the titanium ~~is at a concentration that~~ is no greater than about 80 atomic percent.
6. (Currently Amended) The catalyst of ~~any one of claims 1-5~~ claim 1 wherein the tungsten ~~is at a concentration that~~ is no greater than about 80 atomic percent.
7. (Currently Amended) The catalyst of ~~any one of claims 1, 2, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration~~ is between about 5 and 60 atomic percent, the titanium ~~is at a concentration that~~ is no greater than about 80 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 10 and about 80 atomic percent.

8. (Currently Amended) The catalyst of ~~any one of claims 1, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration that~~ is between about 10 and about 50 atomic percent, the titanium ~~is at a concentration that~~ is between about 1 and about 55 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 20 and about 60 atomic percent.

9. (Currently Amended) The catalyst of ~~any one of claims 1, 3, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration that~~ is between about 20 and about 45 atomic percent, the titanium ~~is at a concentration that~~ is between about 5 and about 40 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 30 and about 55 atomic percent.

10. (Currently Amended) The catalyst of ~~any one of claims 1, 3, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration that~~ is between about 30 and about 50 atomic percent, the titanium ~~is at a concentration that~~ is no greater than about 20 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 40 and about 60 atomic percent.

11. (Currently Amended) The catalyst of ~~any one of claims 1, 3, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration that~~ is between about 35 and about 45 atomic percent, the titanium ~~is at a concentration that~~ is between about 5 and about 15 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 45 and about 55 atomic percent.

12. (Currently Amended) The catalyst of ~~any one of claims 1, 2, 3, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration that~~ is between about 20 and about 40 atomic percent, the titanium ~~is at a concentration that~~ is between about 25 and about 45 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 30 and about 50 atomic percent.

13. (Currently Amended) The catalyst of ~~any one of claims 1, 2, 3, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration that~~ is between about 25 and about 35 atomic percent, the titanium ~~is at a concentration that~~ is between about 30 and about 40 atomic percent, and the tungsten ~~is at a concentration that~~ is between about 35 and about 45 atomic percent.

14. (Currently Amended) The catalyst of ~~any one of claims 1, 2, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration~~ is between about 10 and about 50 atomic percent, the titanium ~~is at a concentration~~ is between about 30 and about 80 atomic percent, and the tungsten ~~is at a concentration of~~ is less than about 25 atomic percent.

15. (Currently Amended) The catalyst of ~~any one of claims 1, 2, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration~~ is between about 15 and about 45 atomic percent, the titanium ~~is at a concentration~~ is between about 40 and about 75 atomic percent, and the tungsten ~~is at a concentration~~ is between about 5 and about 20 atomic percent.

16. (Currently Amended) The catalyst of ~~any one of claims 1, 2, 4, 5 or 6~~ claim 1 wherein the platinum ~~is at a concentration~~ is between about 20 and about 40 atomic percent, the titanium is at a concentration is between about 50 and about 65 atomic percent, and the tungsten is at a concentration ~~of~~ is between about 5 and about 15 atomic percent.

17. (Original) A catalyst for use in oxidation or reduction reactions, the catalyst comprising platinum, titanium at a concentration that is between about 2 and about 12 atomic percent, and tungsten.

18. (Original) A catalyst for use in oxidation or reduction reactions, the catalyst comprising platinum, titanium, and tungsten at a concentration that is between about 2 and about 12 atomic percent.

19. (Currently Amended) The catalyst of claim 17-~~or 18~~ comprising platinum at a concentration that is between about 70 and about 85 atomic percent.

20. (Currently Amended) The catalyst of ~~any one of claims 1-19~~ claim 1 consisting essentially of platinum, titanium and tungsten.

21. (Currently Amended) The catalyst of ~~any one of claims 1-19~~ claim 1 wherein the catalyst comprises an alloy of platinum, titanium and tungsten.

22. (Currently Amended) The catalyst of ~~any one of claims 1-19~~ claim 1 wherein the catalyst consists essentially of an alloy of platinum, titanium and tungsten.

23. (Currently Amended) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the catalyst of ~~one of claims 1-22~~ claim 1 and electrically conductive support particles upon which the catalyst is dispersed.

Claims 24-41. (Deleted)

42. (New) The catalyst of claim 2 wherein the concentration of platinum is no greater than about 50 atomic percent.

43. (New) The catalyst of claim 2 wherein the titanium concentration is no greater than about 80 atomic percent.

44. (New) The catalyst of claim 2 wherein the tungsten concentration is no greater than about 80 atomic percent.

45. (New) The catalyst of claim 2 consisting essentially of platinum, titanium and tungsten.

46. (New) The catalyst of claim 2 wherein the catalyst comprises an alloy of platinum, titanium and tungsten.

47. (New) The catalyst of claim 2 wherein the catalyst consists essentially of an alloy of platinum, titanium and tungsten.

48. (New) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the catalyst of claim 2 and electrically conductive support particles upon which the catalyst is dispersed.

49. (New) The catalyst of claim 3 wherein the concentration of platinum is no greater than about 50 atomic percent.

50. (New) The catalyst of claim 3 wherein the titanium concentration is no greater than about 80 atomic percent.

51. (New) The catalyst of claim 3 wherein the tungsten concentration is no greater than about 80 atomic percent.

52. (New) The catalyst of claim 3 consisting essentially of platinum, titanium and tungsten.

53. (New) The catalyst of claim 3 wherein the catalyst comprises an alloy of platinum, titanium and tungsten.

54. (New) The catalyst of claim 3 wherein the catalyst consists essentially of an alloy of platinum, titanium and tungsten.

55. (New) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the catalyst of claim 3 and electrically conductive support particles upon which the catalyst is dispersed.

56. (New) The catalyst of claim 17 consisting essentially of platinum, titanium and tungsten.

57. (New) The catalyst of claim 17 wherein the catalyst comprises an alloy of platinum, titanium and tungsten.

58. (New) The catalyst of claim 17 wherein the catalyst consists essentially of an alloy of platinum, titanium and tungsten.

59. (New) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the catalyst of claim 17 and electrically conductive support particles upon which the catalyst is dispersed.

60. (New) The catalyst of claim 18 comprising platinum at a concentration that is between about 70 and about 85 atomic percent.

61. (New) The catalyst of claim 18 consisting essentially of platinum, titanium and tungsten.

62. (New) The catalyst of claim 18 wherein the catalyst comprises an alloy of platinum, titanium and tungsten.

63. (New) The catalyst of claim 18 wherein the catalyst consists essentially of an alloy of platinum, titanium and tungsten.

64. (New) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the catalyst of claim 2 and electrically conductive support particles upon which the catalyst is dispersed.